

# NASA Institutional Scientific Collection at Ames Research Center



For more information: <a href="https://www.nasa.gov/ames/research/space-biosciences/isc-bsp">https://www.nasa.gov/ames/research/space-biosciences/isc-bsp</a>

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		2016	2014-17	2017	2018	2017	2017	2017	2017	2016	2014	2011	2010	2007	2001	1996	1995	1993	1993	1991	1985	1974
		ISS Biological Research in Canister23	Hindimb Unloaded	ISS/JAXA Mouse Habitat Unit-2	ISS Rodent Research 7	ISS Rodent Research 9	ISS Rodent Research 6	ISS Rodent Research 5	ISS Rodent Research 4	3	Research 1	STS-133 Immune2	Immune	CBTM2	СВТМ	NIH.R3	NIH.R2	PARE.03	SLS-2	SLS-1	STS- 51B SL-3	Cosmos 1129
System	Specimen Types	Bacteria	Rat	Mouse	Mouse	Mouse	Mouse	Mouse	Mouse	Mouse	Mouse	Mouse	Mouse	Mouse	Quail	Rat	Rat	Rat	Rat	Rat	Rat	Rat
Circulatory	Blood, Heart, Lymph nodes, Spleen		Х			Х					Х			Х	Х			Х	Х	Х		
Digestive	Cecum, Colon, Duodenum, GI Tract, Ileum, Intestine, Jejunum, Pancreas, Stomach			х	х	Х	Х		х	Х	Х	Х		Х	Х	х		Х	х	х		
Endocrine	Adrenal glands, Liver, Salivary glands, Thymus, Thyroid		Х		Х	Х	Х			Х	Х	Х	Х	Х		х	Х	Х	Х	х		
Excretory	Bladder, Fecal pellets, Kidney		Х			Х	Х					Х	Х	Х		Х		Х	Х	Х		
Integumentary	Adipose, Skin, Whiskers		X	Х		Χ	Х	Х	Х	Х	Х			Х	Х	Х		Х				
Muscular	Adductor longus, Diaphragm, EDL, Gastroc, Plantaris, Soleus		x		X	X				x	х					х		х	х	х	х	
Neurosensory	Brain, Eyes, Hypothalamus, Pituitary									Х	Х			х		Х		Х	Х		X	
Reproductive	Ovary, Uterus, Testes		Х	Х		Х	Χ			Х				Χ		Х		Χ	Х	Х		
Respiratory	Esophagus, Lung, Trachea		Х	Χ	Х	Χ	Χ			Х			Χ	Χ		Х		Χ	Х	Х		
Skeletal	Calvaria, Femur, Humerus, Jawbone, Parietal, Pelvis, Ribs, Tail, Tibia, Vertebrae			х	X	X		Х	х	X				Х	Х	х			х			х
DNA and Protein extracts	Adrenal, Kidney, Liver, TA, EDL, Eye, Gastroc, Quadriceps, Soleus					Х	Х				Х											
DNA and Protein extracts	Bacillus subtilis, Staphylococcus aureus	Х																				

## NASA Institutional Scientific Collection (ISC) at Ames Research Center

### NASA Institutional Scientific Collection (ISC) at Ames Research Center

The NASA Institutional Scientific Collection (ISC) at Ames Research Center is the official repository of non-human flight and ground biospecimens. These specimens are curated and managed by the Ames Life Sciences Data Archive (ALSDA), an internal node of NASA's Life Sciences Data Archive (LSDA). The NASA ISC at Ames includes more than 30,000 preserved biological specimens from experiments dating from 1975 to present and is the only source of publicly accessible space-flown non-human specimens.

#### WHO CAN REQUEST TISSUES?

- Tissues from the NASA ISC at Ames are available for request by <u>ALL researchers</u>, including those based outside the United States.
- Tissues are generally of interest to interdisciplinary researchers and those studying disease processes, i.e. Muscle Atrophy, Bone Demineralization, etc.
- Teachers at all levels are encouraged to apply for tissues (especially older mission tissues), for classroom demonstrations and student projects.

#### **HOW DO I REQUEST TISSUES?**

- Tissues can be requested at any time.
- A request is initiated by submitting an online Data Request at https://lsda.jsc.nasa.gov
- If the requested tissues are available, the requestor will be sent instructions for submission of a short proposal.

#### HOW CAN I LEARN MORE ABOUT THE TISSUES IN THE NASA ISC AT AMES?

- To learn about available tissues, use the <u>Biospecimen Search function on the LSDA webpage</u> to browse the tissue database. Click on the "Details" link for any specimen in search results to view detailed metadata.



For more information email: arc-dl-alsda@mail.nasa.gov